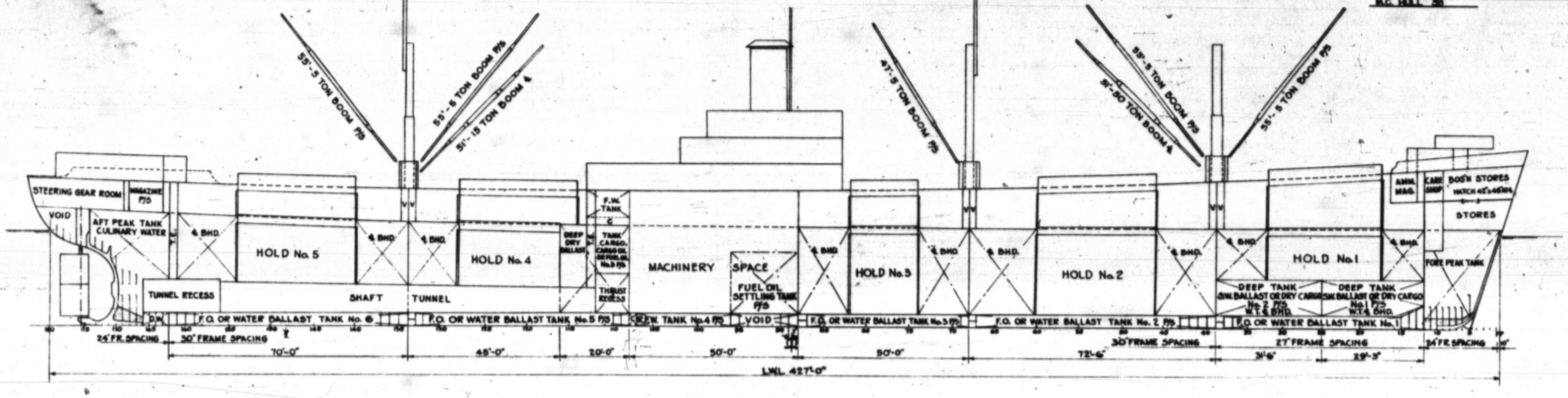
THomas Ruffin - U.S.
8-30-42 - Anch.
U.S. Coast Guard

S.S. THOMAS RUFFIN

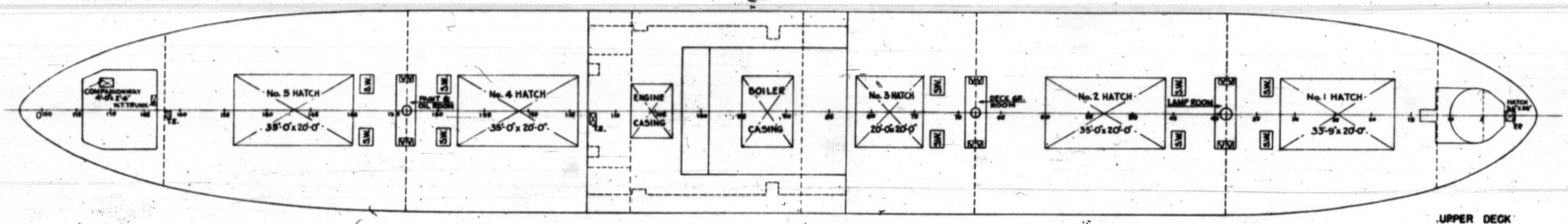
M.C. HULL 39

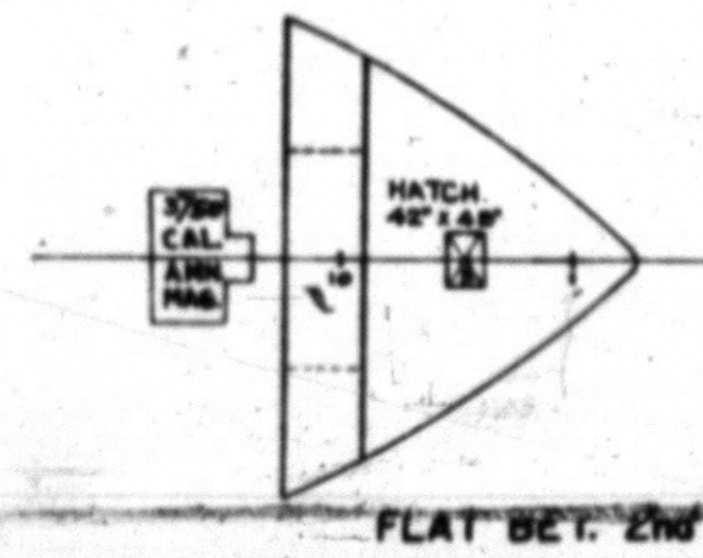
B.F. HULL 2026

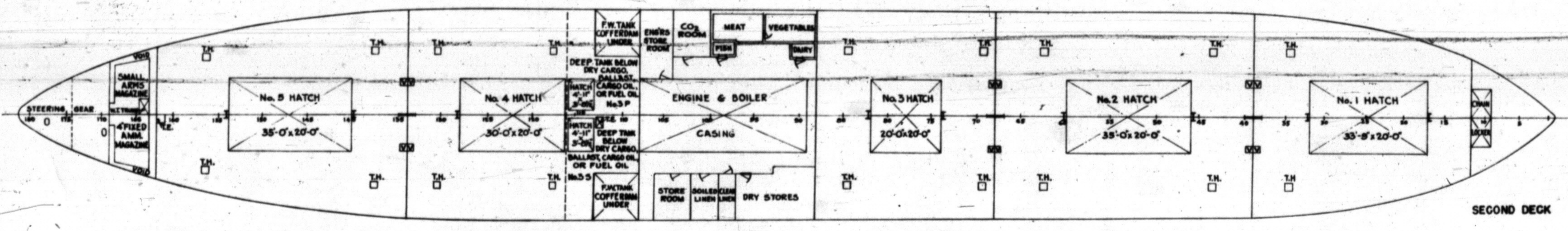


ABBREVIATION

T.E. – TUNNEL ESCAPE
T.H. – TRIMMING HATCH
D.W. – DRAIN WELL
S.W. – STEAM WINCH
V. – VENT TRUNK
C. – COFFERDAM

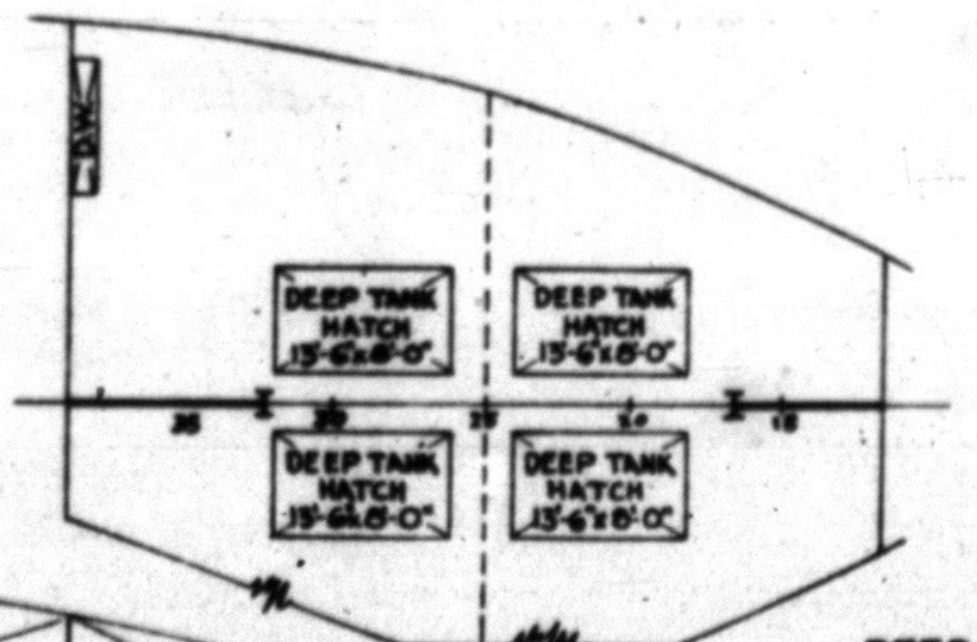






STORES

STORE ROOM	CU. FT.
BOS'N. STORES ON 2nd DECK F.P. TO FR. 12	3034
BOS'N. STORES ON FLAT BET. 2nd & UPP. DKS.	3492
CABIN STORES 2nd DK. (FRS. 88-106)	4329
LINEN LOCKER	585
BONDED STORES	186
REFRIGERATED STORES:	
MEAT	801
FISH	173
VEGETABLES	768
DAIRY	176


DEEP TANK HATCH 13'-6" x 8'-0"
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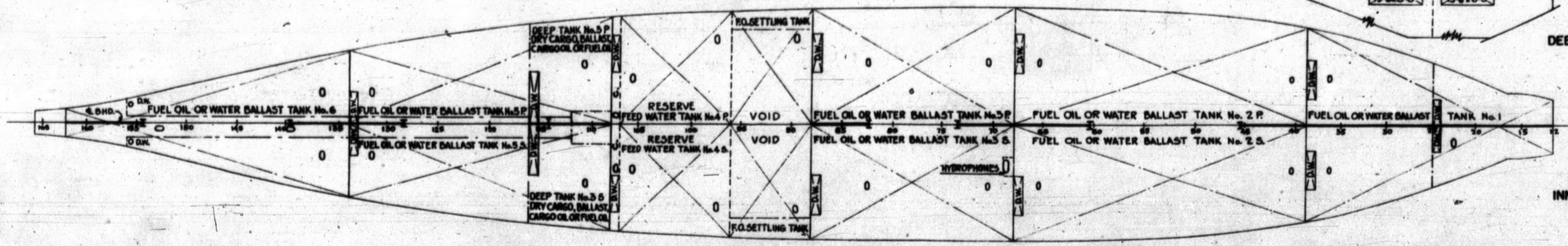
DEEP TANK TOP


℄ BHD.
D.W.
FUEL OIL OR WATER BALLAST TANK No. 6
FUEL OIL OR WATER BALLAST TANK No. 5 P.
FUEL OIL OR WATER BALLAST TANK No. 5 S.
DEEP TANK No. 3 P. DRY CARGO, BALLAST, CARGO OIL OR FUEL OIL
DEEP TANK No. 3 S. DRY CARGO, BALLAST, CARGO OIL OR FUEL OIL
RESERVE FEED WATER TANK No. 4 P.
RESERVE FEED WATER TANK No. 4 S.
F.O. SETTLING TANK
VOID
VOID
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FUEL OIL OR WATER BALLAST TANK No. 3 P.
FUEL OIL OR WATER BALLAST TANK No. 3 S.
HYDROPHONES
FUEL OIL OR WATER BALLAST TANK No. 2 P.
FUEL OIL OR WATER BALLAST TANK No. 2 S.
FUEL OIL OR WATER BALLAST TANK No. 1
INNER BOTTOM

CARGO

COMPARTMENT			GRAIN CAP.	BALE CAP.
HOLD No. 1			C.F.	C.F.
		HOLD	41257	36083
		TWEEN DECKS	43143	39565
HOLD No. 2				
		HOLD	98860	92008
		TWEEN DECKS	46744	42630
HOLD No. 3				
		HOLD	68459	59793
		TWEEN DECKS	27970	23904
HOLD No. 4				
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		TWEEN DECKS	35277	29689
HOLD No. 5				
		HOLD	58620	51571
		TWEEN DECKS	34570	30864
DEEP	TANKS	No. 1 P.	3639	2729
"	"	No. 1 S.	3639	3004
"	"	No. 2 P.	7473	5294
"	"	No. 2 S.	7473	5578
"	"	No. 3 P.	13674	12506
"	"	No. 3 S.	13188	12024
		TOTAL	562827	499816

WATER BALLAST

TANK			CU. FT.	TONS @ 35 C.F.
FORE PEAK			5073	145
WATER	BALLAST	No. 1	5029	144
"	"	No. 2 P.	5967	170
"	"	No. 2 S.	5967	170
"	"	No. 3 P.	4400	126
"	"	No. 3 S.	4365	125
"	"	No. 5 P.	4391	125
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AFTER PEAK-CULINARY WATER			5438	155
DEEP	TANKS	No. 1 P.	3973	114
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"	"	No. 2 S.	7340	210
"	"	No. 3 P.	13540	387
"	"	No. 3 S.	13065	373
		TOTAL	98370	2811

FRESH WATER

TANK			GAL'S	TONS @ 35 C.F.
RESERVE	FEED	No. 4 P.	17855	66
"	"	No. 4 S.	17855	66
FRESH	WATER	FR. 108-113 P.	7541	28
"	"	FR. 108-113 S.	7541	28
		TOTAL	50792	188

FUEL OIL

TANK		GAL'S	TONS @ 37.23 C.F.
FUEL OIL TANK	No. 1	36863	132
" " "	No. 2 P.	43742	157
" " "	No. 2 S.	43742	157
" " "	No. 3 P.	32251	116
" " "	No. 3 S.	31955	115
" " "	No. 5 P.	32185	116
" " "	No. 5 S.	32185	116
" " "	No. 6	30183	108
	TOTAL	283106	1017
F.O. SETTLING TANK	FR. 88-96 P.	14083	51
" " "	FR. 88-96 S.	14083	51
	TOTAL	28166	102
CARGO OIL OR FUEL OIL			
DEEP TANK	No. 3 P.	99257	356
" "	No. 3 S.	95772	344
	TOTAL	195029	700
	TOTAL (ALL F.O.)	506301	1819

PRINCIPAL DIMENSIONS

L.O.A. ---------- 441'-7½"
L.B.P. (25'-3¼" W.L.) ---------- 416'-0"
BREADTH, MLD. ---------- 56'-10¾"
BREADTH, EXTREME ---------- 57'-1¼
DEPTH TO UPPER DECK, MLD. ---------- 37'-4"
DEPTH TO SECOND DECK, MLD. ---------- 28'-7"
DRAFT ---------- 27'-9¼"

CAPACITIES & TYPES OF WINCHES
7"x12" DBL. GEARED WINCHES FOR 5 & 15 TON BOOMS
9"x12" " " WINCH FOR 50 TON BOOM

HEIGHTS OF MASTS

FIXED MAST ABOVE DECK	FOREMAST	40'-3 5/16"
" " " "	FR. 68	42'-11 3/16"
" " " "	FR. 134	42'-2 7/16"
TELESCOPIC " " "	FR. 68	62'-11 3/16"
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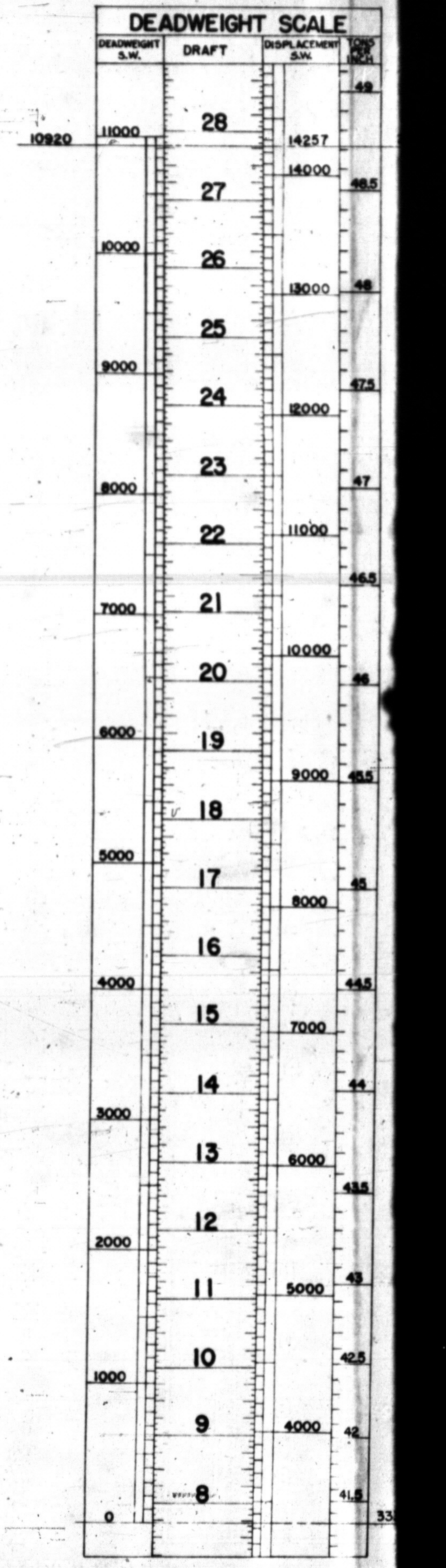
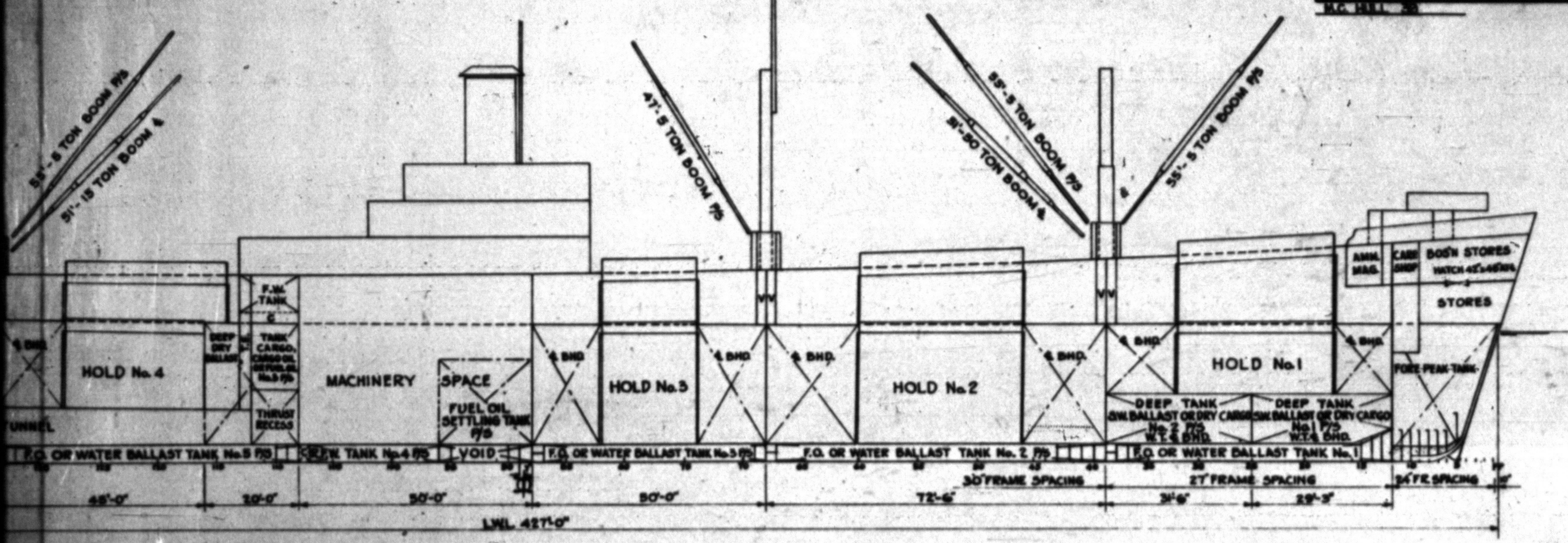
ENGINE
DIRECT ACTING CONDENSING THREE CYLINDER TRIPLE EXPANSION ENGINE DEVELOPING 2500 I.H.P. AT 76 R.P.M.

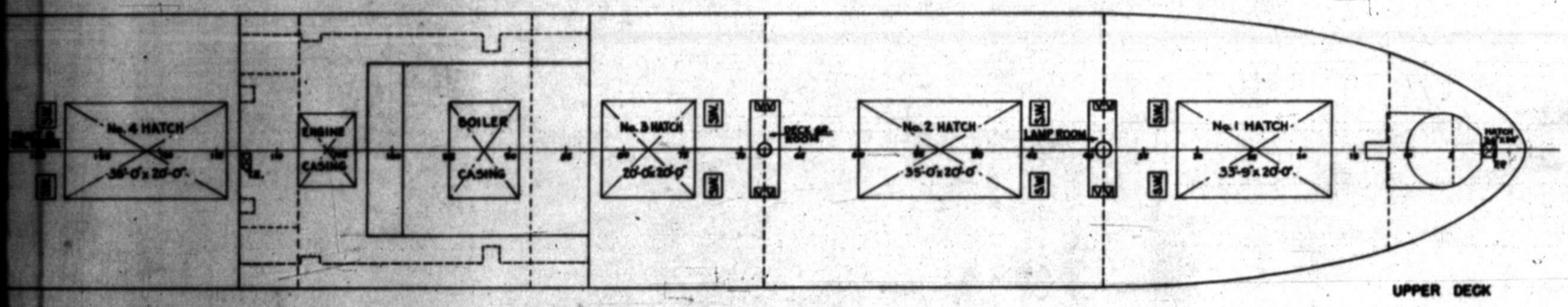
BOILERS
TWO MAIN BOILERS OF THE CROSS DRUM SECTIONAL SINUOUS HEADER STRAIGHT TUBE TYPE FITTED WITH SUPER HEATERS, BURNING BUNKER "C" FUEL OIL



S.S. THOMAS RUFFIN

M.C. HULL 29 B.F. HULL 2026





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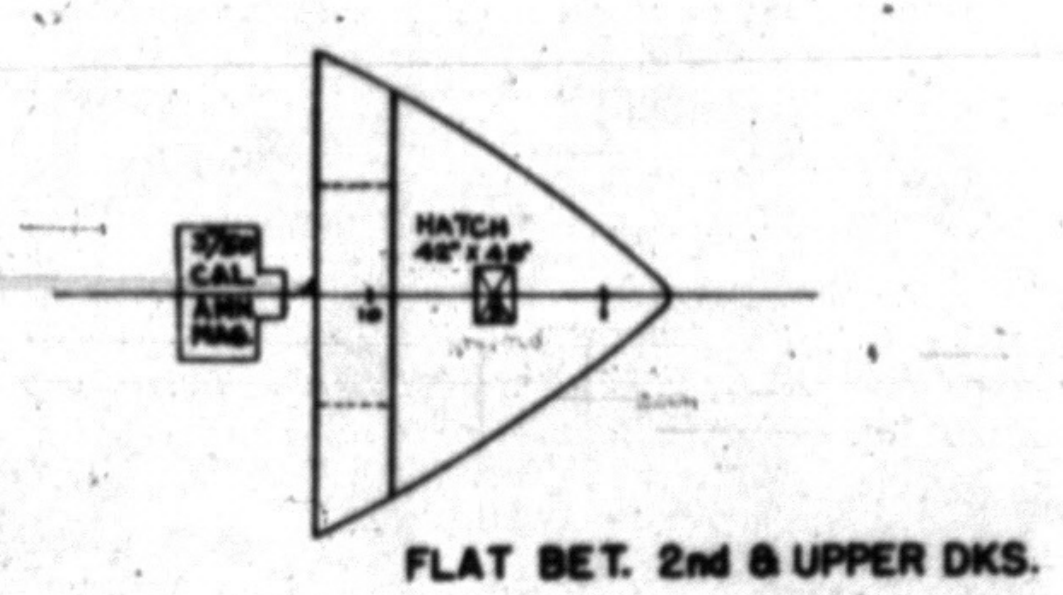

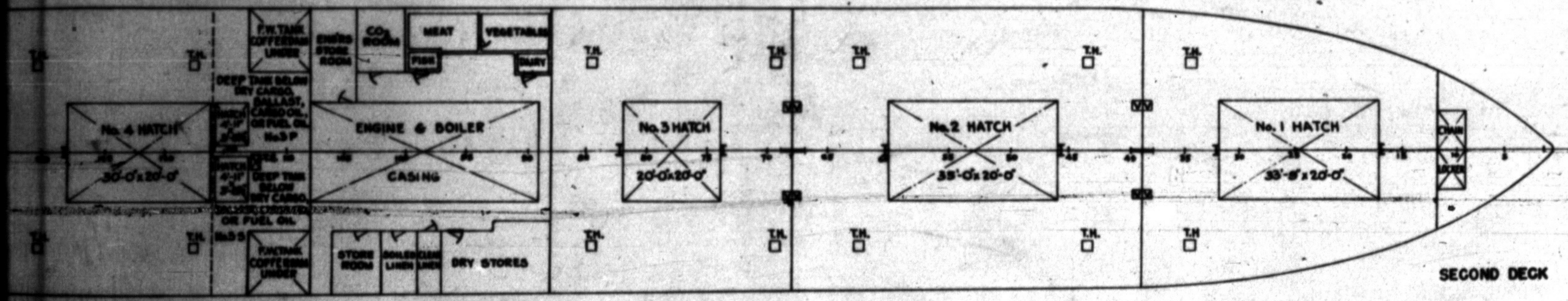

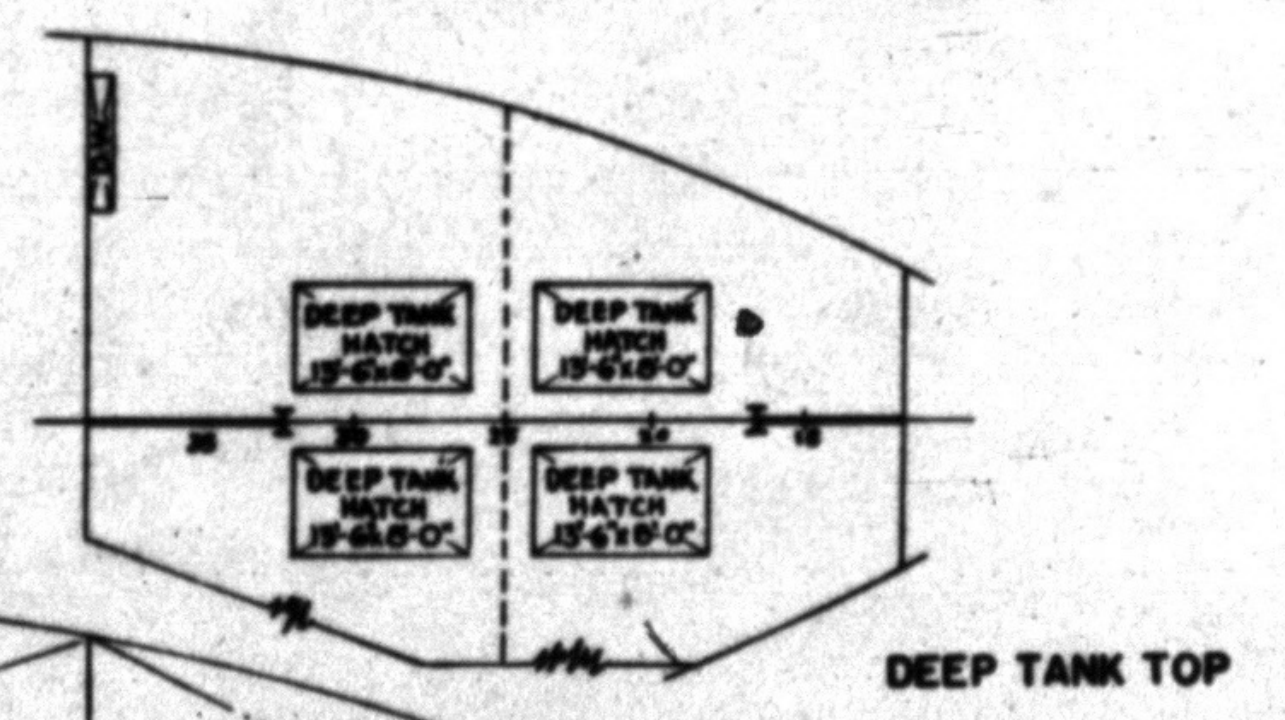

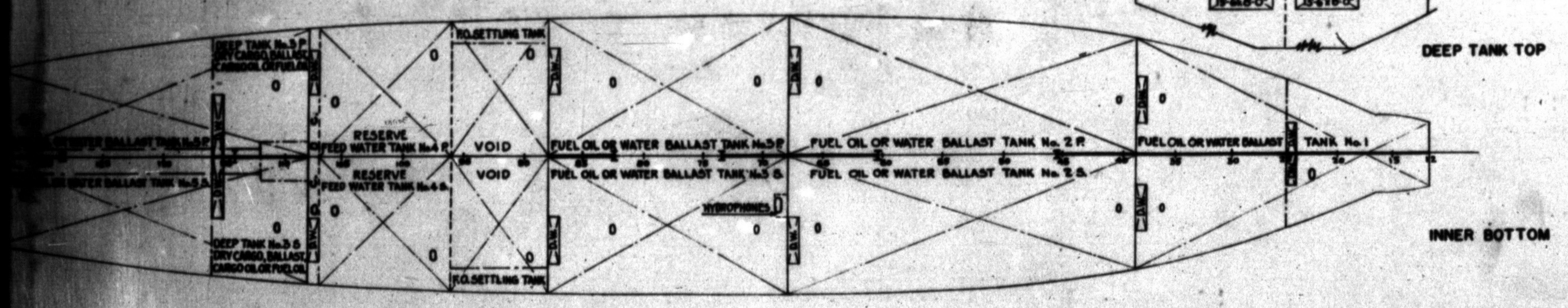

RESERVE FEED WATER TANK No.4 P
RESERVE FEED WATER TANK No.4 S
VOID
F.O. SETTLING TANK
FUEL OIL OR WATER BALLAST TANK No.3 P
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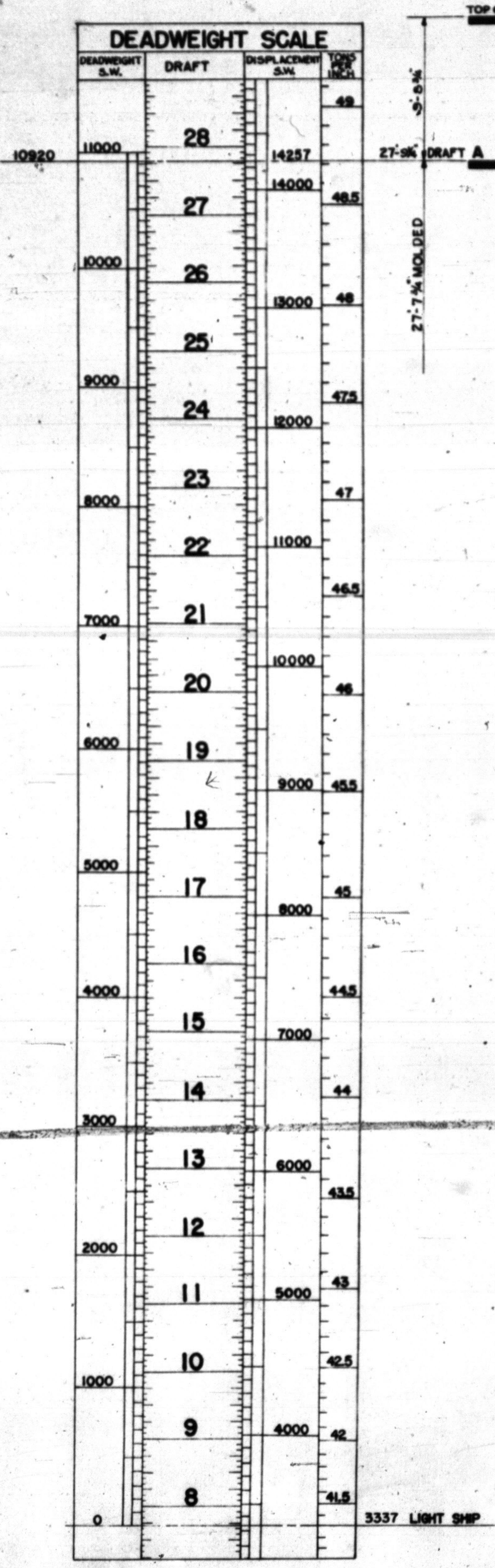
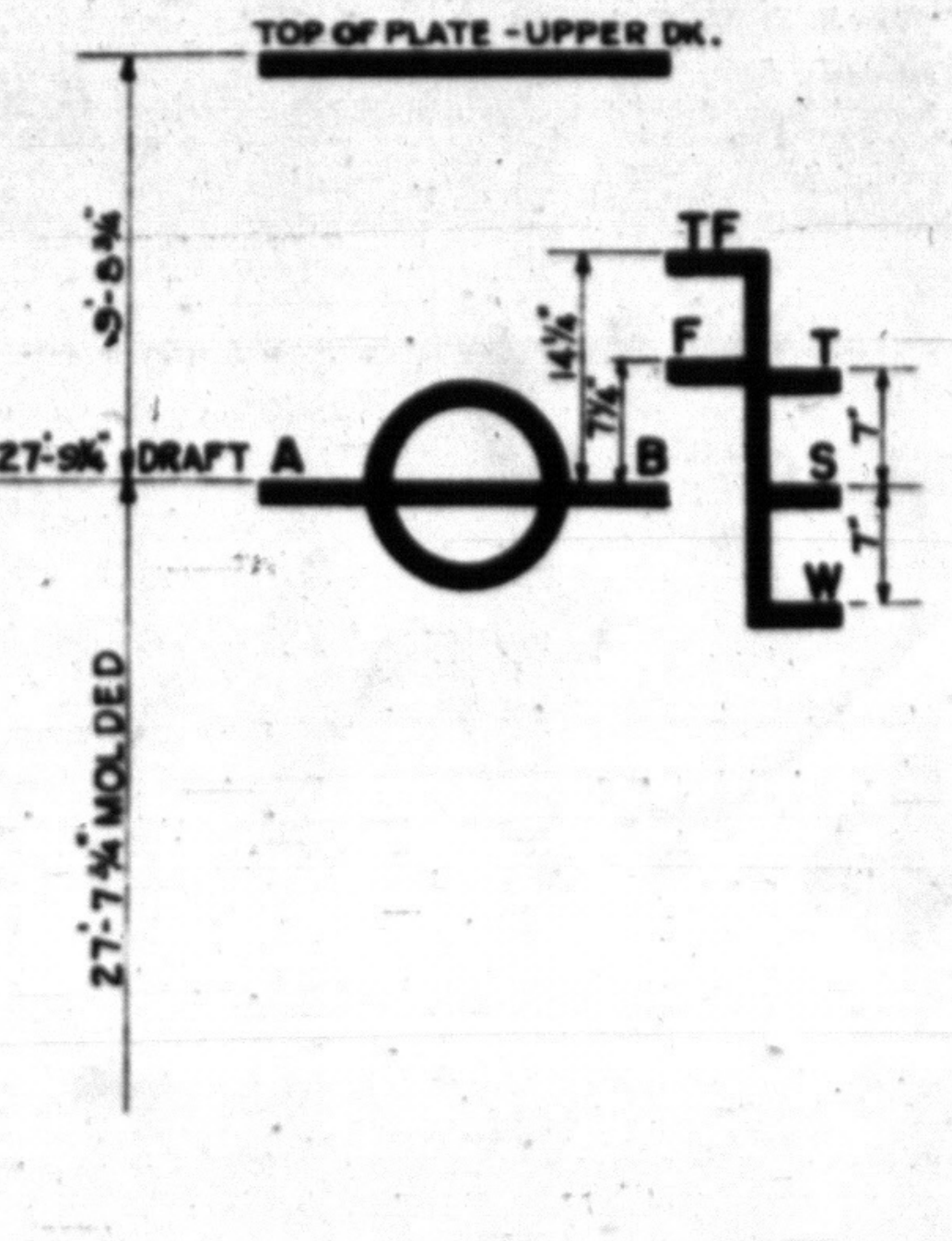




NOTE:
THE LIGHT WEIGHT OF THE SHIP INCLUDES THE 4" GUN AFT., 4- 20 M.M. MACHINE GUNS, 4-30 CALIBER MACHINE GUNS, 3"/50 CALIBER GUN FORWARD & AMMUNITION

DESIGN NO. EC2-S-C1

UNITED STATES MARITIME COMMISSION
EMERGENCY SHIP CONTRUCTION DIVISION

CAPACITY PLAN

SCALE 1/16" = 1'-0" DATE JUNE 8, 1942
DRAWN P.E.P. APPROVED
TRACED APPROVED
CHECKED E.F.C. APPROVED

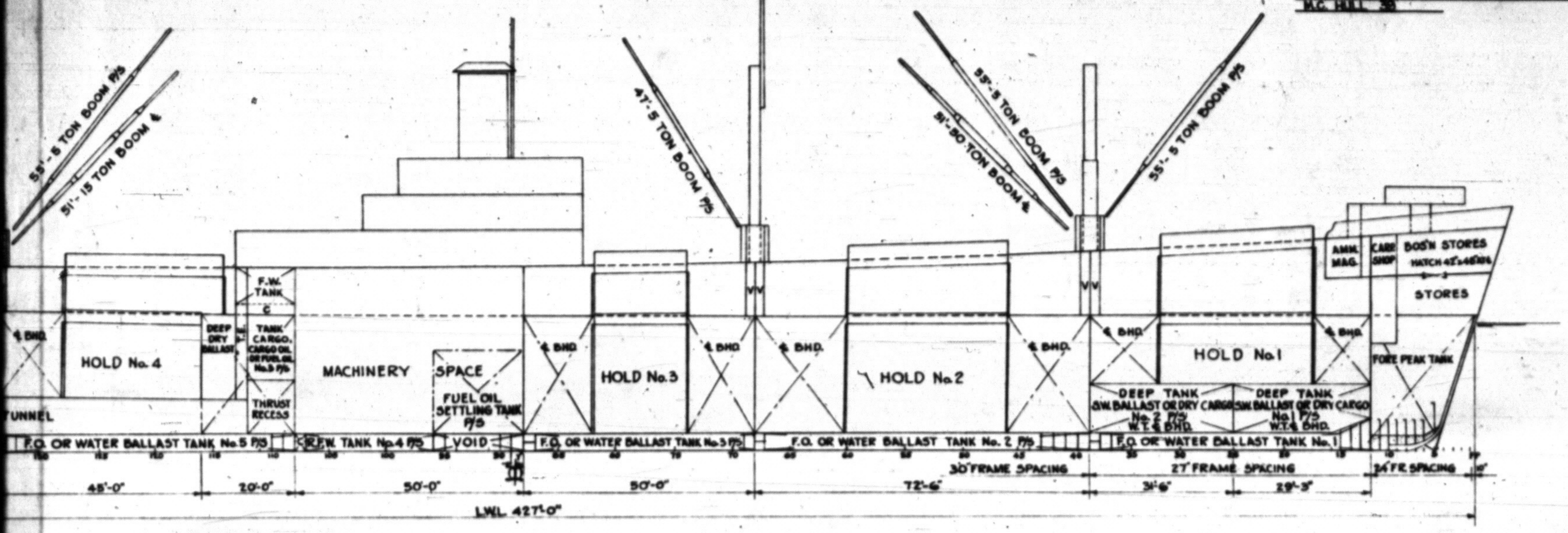
BETHLEHEM-FAIRFIELD SHIPYARD, INCORPORATED
FAIRFIELD BALTIMORE, MD

M.C.E. PLAN No 14-63 301-312 S29-1-1-25

APPROVED AS NOTED IN
M.C.E. LETTER DATED JULY 1, 1942
M.C.E. FILE NO. S29-1-(H)
BY W. G. Esmond
BY

S.S. THOMAS RUFFIN

M.C. HULL 35 B.F. HULL 2026



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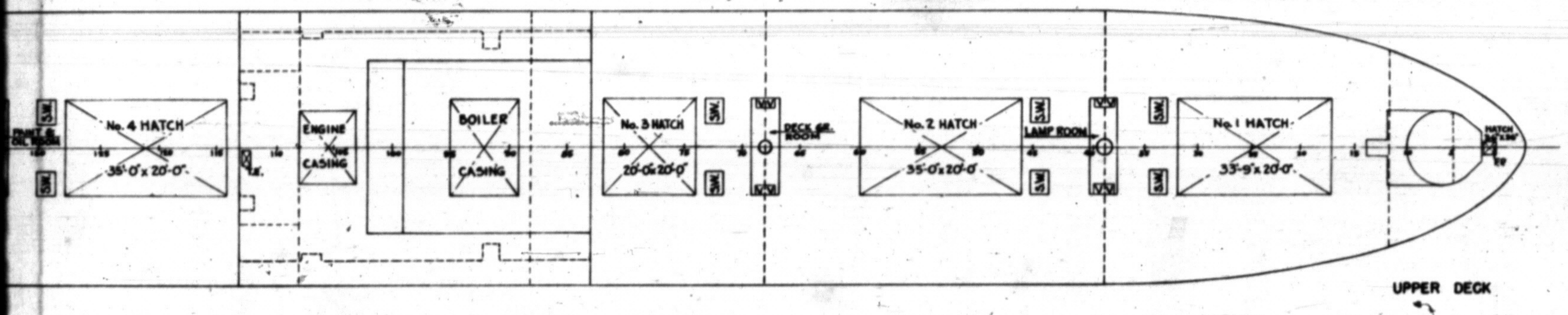
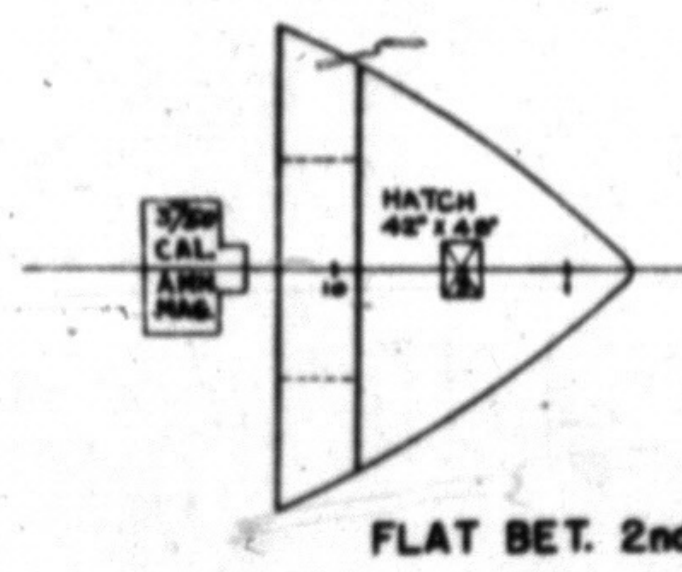
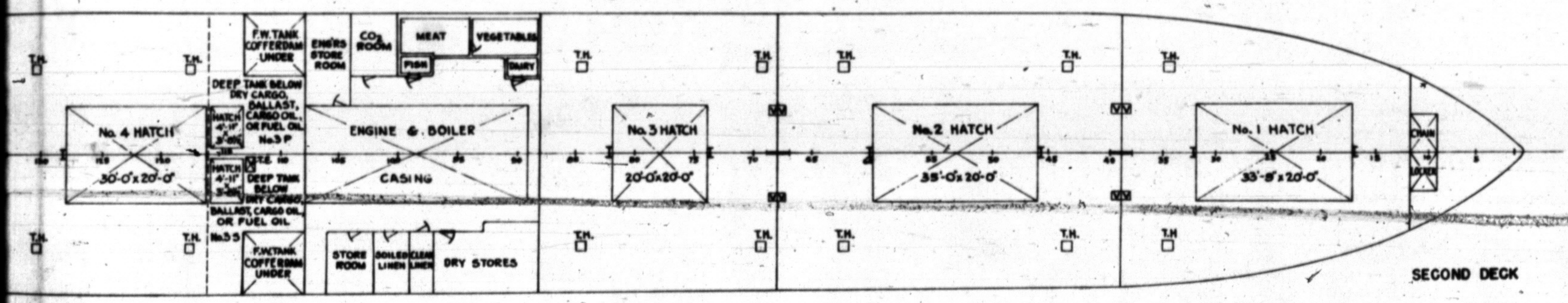

No. 4 HATCH 35'-0"x20'-0"
ENGINE CASING
BOILER CASING
No. 3 HATCH 20'-0"x20'-0"
No. 2 HATCH 35'-0"x20'-0"
LAMP ROOM
No. 1 HATCH 33'-9"x20'-0"

UPPER DECK



FLAT BET. 2nd & UPPER DKS.


T.H.
F.W. TANK COFFERDAM UNDER
ENGINE STORE ROOM
CO2 ROOM
MEAT
VEGETABLES
FISH
DAIRY
DEEP TANK BELOW DRY CARGO, BALLAST, CARGO OIL OR FUEL OIL
No. 4 HATCH 35'-0"x20'-0"
ENGINE & BOILER CASING
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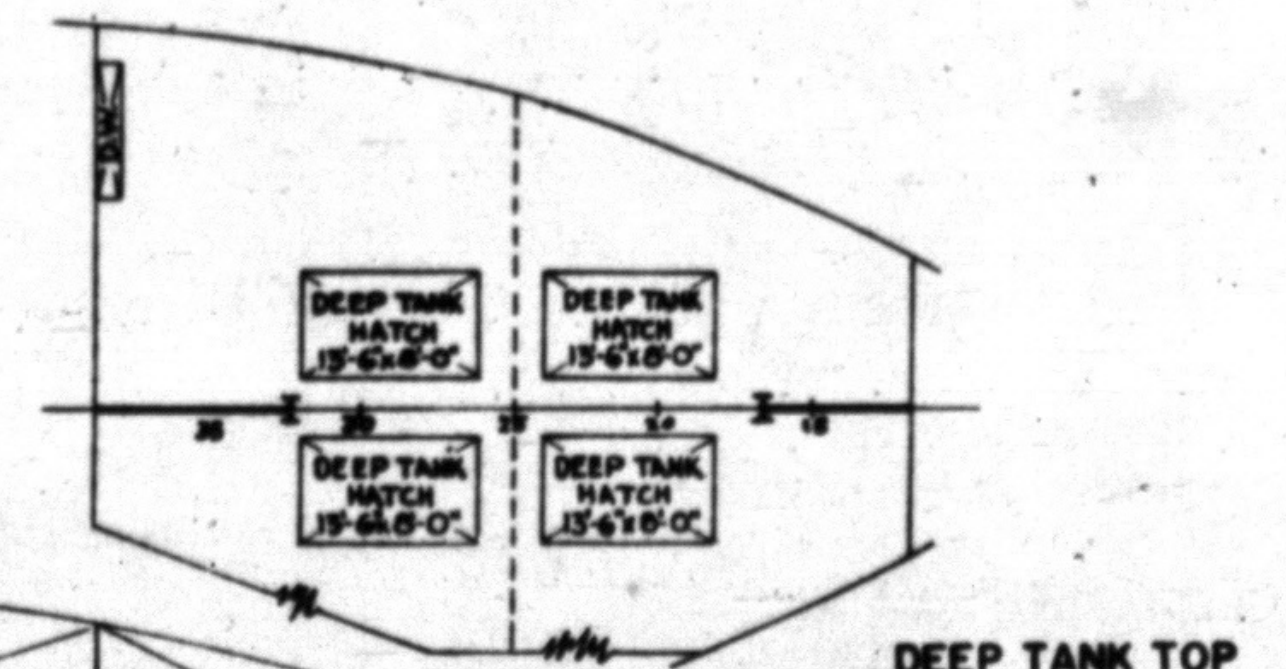
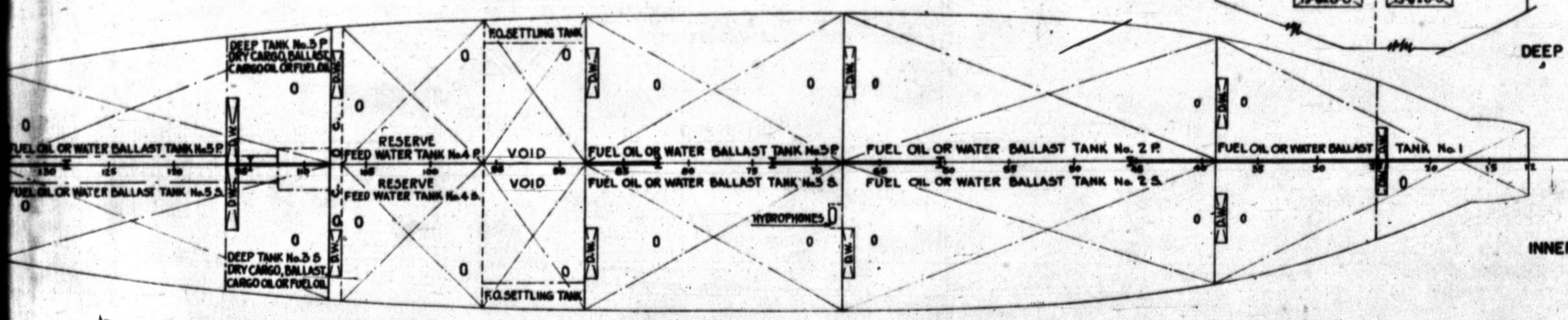
STORE ROOM
LINEN
DRY STORES

SECOND DECK



DEEP TANK TOP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PRINCIPAL DIMENSIONS

L.O.A.	441'-7½"
L.B.P. (25'-3¼" W.L.)	416'-0"
BREADTH, MLD.	56'-10¾"
BREADTH, EXTREME	57'-1¼
DEPTH TO UPPER DECK, MLD.	37'-4"
DEPTH TO SECOND DECK, MLD.	28'-7"
DRAFT	27'-9¼"

CAPACITIES & TYPES OF WINCHES

7"x12" DBL. GEARED WINCHES FOR 5 & 15 TON BOOMS
9"x12" " " WINCH FOR 50 TON BOOM

HEIGHTS OF MASTS

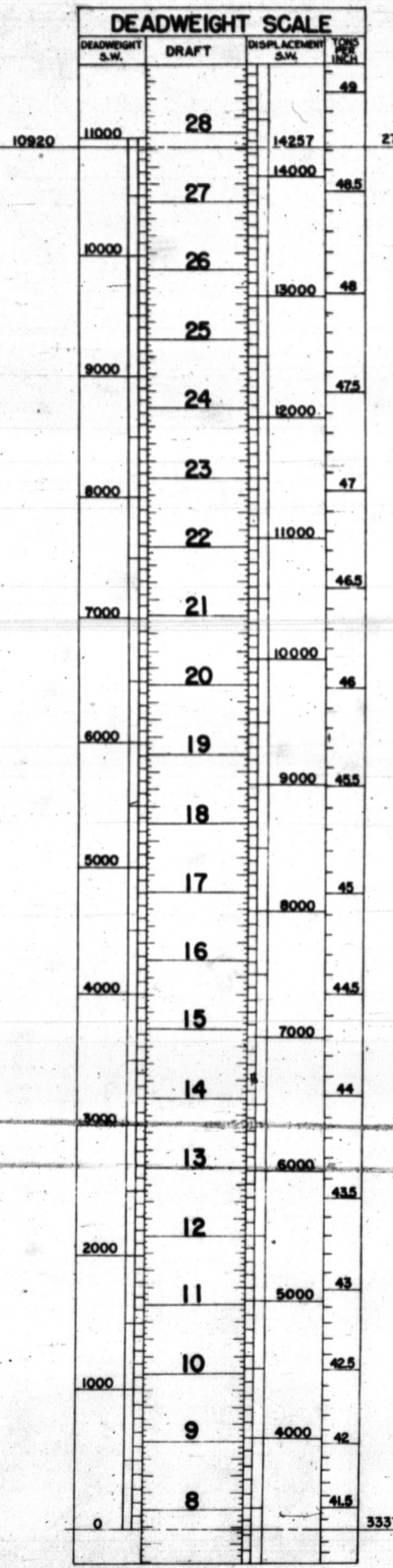
FIXED MAST ABOVE DECK	FOREMAST	40'-3 11/16"
" " " "	FR. 68	42'-11 3/16"
" " " "	FR. 134	42'-2 7/16"
TELESCOPIC " " "	F.R. 68	62'-11 3/16"
" " " "	FR. 134	62'-2 7/16"

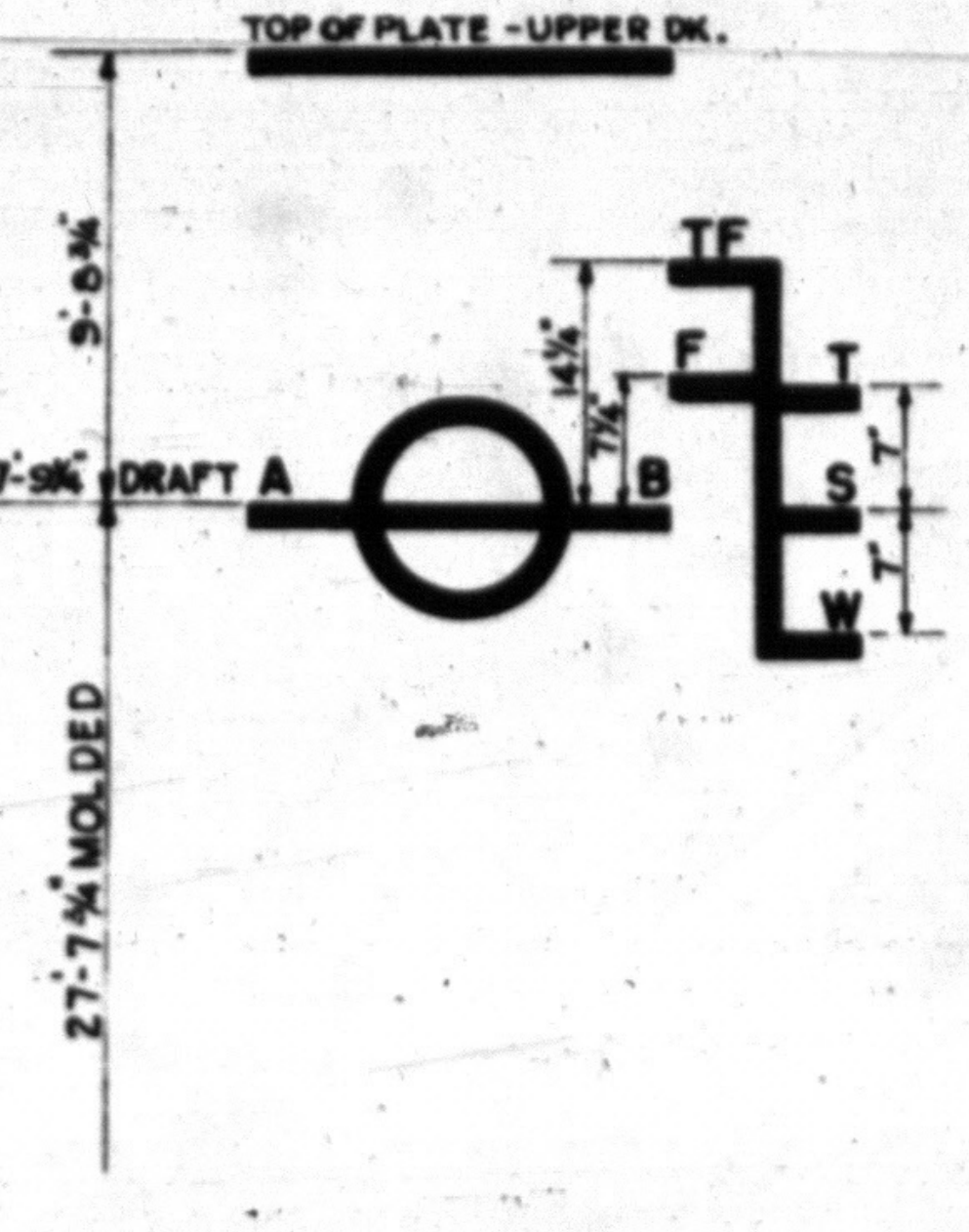
ENGINE

DIRECT ACTING CONDENSING THREE CYLINDER TRIPLE EXPANSION ENGINE DEVELOPING 2500 I.H.P. AT 76 R.P.M.

BOILERS

TWO MAIN BOILERS OF THE CROSS DRUM SECTIONAL SINUOUS HEADER STRAIGHT TUBE TYPE FITTED WITH SUPER HEATERS, BURNING BUNKER "C" FUEL OIL





NOTE:
THE LIGHT WEIGHT OF THE SHIP INCLUDES THE 4" GUN AFT., 4 - 20 M.M. MACHINE GUNS, 4 - 30 CALIBER MACHINE GUNS, 3"/50 CALIBER GUN FORWARD & AMMUNITION

DESIGN NO. EC2-S-C1

UNITED STATES MARITIME COMMISSION
EMERGENCY SHIP CONTRUCTION DIVISION

CAPACITY PLAN

SCALE 1/16" = 1'-0" DATE JUNE 8, 1942

DRAWN P.E.P. APPROVED E.F.C.
TRACED APPROVED
CHECKED E.F.C. APPROVED

BETHLEHEM-FAIRFIELD SHIPYARD, INCORPORATED
FAIRFIELD BALTIMORE, MD

M.C.E. PLAN No 14-63 301-312 S29-1-1-25

APPROVED AS NOTED IN
M.C.E. LETTER DATED JULY 1, 1942
M.C.E. FILE NO. S29-1-(H)
BY W. G. Esmond
BY

S29-1-1-25

MC-33-14